# **NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_DATE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_PER.\_\_\_\_\_\_\_**

## **5.1, 5.2, & 5.4 TEST REVIEW**

**5 points added to your test, if complete!**

### PART 1. IMPORTANT GEOMETRIC TERMS

**Write a thorough definition and draw a picture for each of the following geometric terms.**

|  |  |
| --- | --- |
| 1. Triangle |  |
| 1. Scalene Triangle |  |
| 1. Isosceles Triangle |  |
| 1. Equilateral Triangle |  |
| 1. Acute Triangle |  |
| 1. Obtuse Triangle |  |
| 1. Right Triangle |  |
| 1. Equiangular Triangle |  |

PART 2. TRIANGLE BASICS

**The measures of two angles of a triangle are given. Find the measure of the third angle, then classify the triangle by *ANGLES*.**

|  |  |
| --- | --- |
| 1. Third Angle = \_\_\_\_\_\_\_\_\_\_\_\_   Classification:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | , |
| 1. Third Angle = \_\_\_\_\_\_\_\_\_\_\_\_   Classification:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | , |
| 1. Third Angle = \_\_\_\_\_\_\_\_\_\_\_\_     Classification:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | , |

PART 3. ANGLES OF TRIANGLES

**Find the specified value(s).**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_   \_\_\_\_\_\_\_­­\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_   \_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_ |  |

**PART 4. CONGRUENT TRIANGLES**

**Given each set of congruent triangles, complete each of the following.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_   \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_   \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_ |  |

|  |
| --- |
| 1. If , , and , find the following.   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. If , , and , find the following.   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Determine whether each statement is true or false. Circle one.**

|  |  |
| --- | --- |
| 1. TRUE or FALSE | If , then . |
| 1. TRUE or FALSE | If , then . |
| 1. TRUE or FALSE | If , then . |

PART 5. ISOSCELES AND EQUILATERAL TRIANGLES

Find the following.

|  |
| --- |
| 1. Find ‘’: |
| 1. Find ‘’: |
| 1. Find ‘’: |
| 1. Find ‘’: |

PART 6. REVIEW

**For each of the following pairs of angles, tell what type of pair they are, and tell whether each pair is congruent or supplementary.**

1

2

3

4

5

6

7

8

|  |  |  |
| --- | --- | --- |
| ANGLE PAIR | TYPE | or SUPPLEMENTS |
| 1. and |  |  |
| 1. and |  |  |
| 1. and |  |  |
| 1. and |  |  |
| 1. and |  |  |

|  |
| --- |
| 1. Find the value of ‘’. |
| 1. If and , find . |
| 1. Find the midpoint of described in #33. |

**A Mishmash of Answers:**

A triangle with at least two sides congruent.

A figure with three sides and three angles.

A triangle with no two sides congruent.

A triangle with all sides congruent.

A triangle in which all of the angles are acute.

A triangle with an obtuse angle.

A triangle with a right angle.

A triangle with all angles congruent.

obtuse

False

right

False

Corresponding, Congruent

S. S. Ext., Supp.

S. S. Int., Supp.

Alt. Int., Congruent

Alt. Ext., Congruent

True

acute